

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564623

Luminaire Tested: **SQ4-PW1-050U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564623  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-050U-050D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

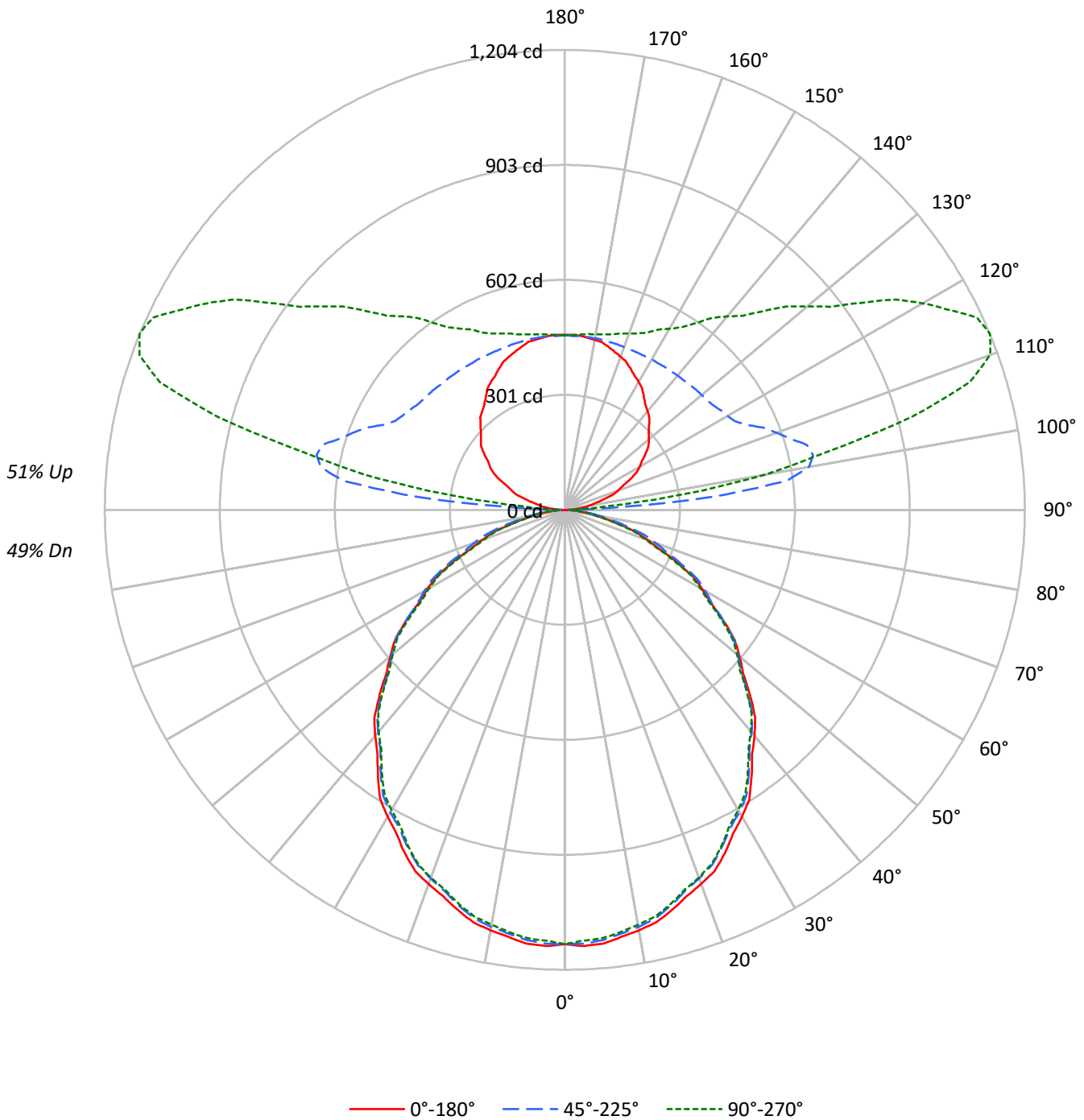
Lumens per Lamp: N/A  
Luminaire Lumens: 5881.7 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 44.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42				
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35				
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26				
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22				
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19				
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17				
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15				
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6950
10°	6981	6925	6887
15°	6906	6830	6805
20°	6824	6719	6706
25°	6729	6607	6586
30°	6587	6487	6445
35°	6400	6310	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5626
55°	5445	5445	5359
60°	5113	5211	5026
65°	4679	4912	4563
70°	4124	4521	4016
75°	3522	4047	3427
80°	2731	3404	2766
85°	1764	2618	2329



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	1.8
10°-20°	302.2	5.1
20°-30°	448.3	7.6
30°-40°	524.5	8.9
40°-50°	522.2	8.9
50°-60°	450.9	7.7
60°-70°	324.6	5.5
70°-80°	170.2	2.9
80°-90°	44.0	0.7
90°-100°	219.7	3.7
100°-110°	596.8	10.1
110°-120°	613.6	10.4
120°-130°	490.6	8.3
130°-140°	385.5	6.6
140°-150°	295.6	5.0
150°-160°	212.5	3.6
160°-170°	130.0	2.2
170°-180°	43.8	0.7
0°-30°	857.5	14.6
0°-40°	1382.0	23.5
0°-60°	2355.1	40.0
0°-90°	2893.8	49.2
90°-120°	1430.0	24.3
90°-150°	2601.6	44.2
90°-180°	2988.0	50.8
0°-180°	5881.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1140	1127	1131	1128	1126	108
15°	1085	1071	1073	1071	1069	306
25°	992	975	974	968	970	456
35°	852	840	840	832	835	533
45°	685	679	676	674	673	529
55°	508	507	508	501	500	453
65°	322	331	338	324	314	319
75°	148	162	170	159	144	159
85°	25	33	37	35	33	33
90°	2	6	10	13	13	3
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1136.7	1136.7	1136.7	1136.7	1136.7
2.5°	1143.1	1133.7	1136.7	1134.2	1128.7
5°	1139.7	1127.0	1130.7	1127.6	1125.7
7.5°	1128.1	1116.3	1119.1	1115.8	1114.7
10°	1117.7	1105.9	1108.7	1104.6	1102.7
12.5°	1105.7	1093.1	1095.8	1091.8	1090.6
15°	1084.6	1070.9	1072.6	1070.6	1068.6
17.5°	1060.2	1046.3	1046.6	1043.4	1043.0
20°	1042.6	1027.9	1026.5	1022.6	1024.5
22.5°	1023.3	1007.9	1006.5	1001.0	1003.7
25°	991.5	974.8	973.5	967.5	970.5
27.5°	954.6	938.2	938.2	929.9	933.0
30°	927.4	911.7	913.4	903.4	907.4
32.5°	898.5	884.4	885.3	875.4	879.3
35°	852.3	840.5	840.3	832.3	835.3
37.5°	805.0	794.6	793.0	788.4	789.2
40°	772.2	763.3	760.1	757.1	757.1
42.5°	737.7	729.7	726.5	724.3	723.5
45°	685.0	679.2	676.0	674.0	673.0
47.5°	632.9	627.5	624.7	623.3	622.3
50°	596.9	593.0	591.9	588.9	587.9
52.5°	560.8	558.5	557.4	553.6	552.6
55°	507.8	506.8	507.8	500.7	499.7
57.5°	452.5	454.0	457.3	447.8	445.5
60°	415.6	419.5	423.6	412.5	408.6
62.5°	378.0	384.2	390.0	377.2	371.8
65°	321.5	331.3	337.5	324.2	313.5
67.5°	267.0	279.1	286.6	272.3	260.2
70°	229.3	243.1	251.4	237.0	223.3
72.5°	196.5	211.8	218.5	205.0	191.3
75°	148.2	161.9	170.3	158.9	144.2
77.5°	105.2	118.1	125.0	115.1	103.0
80°	77.1	90.8	96.1	87.9	78.1
82.5°	54.7	66.0	69.7	64.7	58.1
85°	25.0	32.9	37.1	35.0	33.0
87.5°	6.7	13.1	17.3	17.9	18.7
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)